Linkage Between the Old Resource Concerns and New Resource Concerns

Old Resource	Old Resource Concern	New Resource Concern	New Resource
Soil Erosion	Classic Gully	Concentrated Flow Erosion	Soil Erosion
	Ephemeral Gully		
	Sheet and Rill	Sheet, Rill, & Wind Erosion	
	Wind		
	Shoreline	Excessive Bank Erosion from streams, shoreline and water Conveyance channels	
	Streambank		
	Mass Movement	WATER QUALITY DEGRADATION – Excessive Sediment in surface waters.	
	Road, Road Sides and Construction Sites		
	Irrigation-induced	SOIL EROSION (Sheet and Rill, Ephemeral, Gully) and WATER QUANITY - Inefficient Use of Irrigation Water	
Soil Condition	Organic Matter Depletion	Organic Matter Depletion	Soil Quality Degradation
	Compaction	Compaction	
	Subsidence	Subsidence	
	Contaminants - Salts and Other Chemicals	Concentration of Salts and other Chemicals	
	Damage from Sediment Deposition	WATER QUALITY DEGRADATION - Excessive Sediment in Surface Water	
	Contaminants - Residual Pesticides	WATER QUALITY DEGRADATION – Pesticides transported to surface and ground waters.	
	Contaminants-Animal Waste and Other Organics - N	WATER QUALITY DEGRADATION – Excess nutrients in surface and ground waters	
	Contaminants-Animal Waste and Other Organics - P		
	Contaminants-Animal Waste and Other Organics - K		
	Contaminants-Commercial Fertilizer - N		
	Contaminants-Commercial Fertilizer - P		
	Contaminants-Commercial Fertilizer - K		
	Rangeland Site Stability	DEGRADED PLANT CONDITION – Undesirable Plant Productivity and Health	

Water Quantity	Aquifer Overdraft	Inefficient Use of Irrigation Water	Excess \ Insufficient Water
	Reduced Capacity of Conveyances by Sediment Deposition	WATER QUALITY DEGRADATION – Excessive Sediment in surface waters. Relative to irrigation, it is implied that the whole irrigation system (pumps, transport systems, irrigation efficiency) is covered.	
	Insufficient Flows in Water Courses		
	Reduced Storage of Water Bodies by Sediment Accumulation		
	Rangeland Hydrologic Cycle	WATER QUALITY DEGRADATION – Inefficient Water Use on Non-irrigated Land	
	Inadequate Outlets	SOIL EROSION – Concentrated Flow Erosion	

Water Quality	Excessive Suspended Sediment and Turbidity in Surface Water	Excessive Sediment in surface waters	Water Quality Degradation
	Harmful Temperatures of Surface Water	Elevated Water Temperature	
	Excessive Nutrients and Organics in Groundwater	Excess Nutrients in surface and ground waters	
	Excessive Nutrients and Organics in Surface Water		
	Excessive Salinity in Groundwater	Excessive Salts in surface waters and ground waters	
	Excessive Salinity in Surface Water		
	Harmful Levels of Pesticides in Groundwater	Pesticides transported to surface and ground waters	
	Harmful Levels of Pesticides in Surface Water		
	Harmful Levels of Pathogens in Groundwater	Excess pathogens and chemicals from manure, bio-solids or compost applications.	
	Harmful Levels of Pathogens in Surface Water		
	Harmful Levels of Heavy Metals in Groundwater	Petroleum, Heavy Metals and other pollutants transported to receiving waters	
	Harmful Levels of Heavy Metals in Surface Water		
	Harmful Levels of Petroleum in Groundwater		
	Harmful Levels of Petroleum in Surface Water		

Plant Condition	Wildfire Hazard	Wildfire hazard, excessive biomass accumulation	Degraded Plant Condition
	Plants not adapted or suited	Undesirable Plant Productivity and Health	
	Productivity, Health and Vigor		
	Forage Quality and Palatability		
	Noxious and Invasive Plants	Excessive Plant Pest Pressure	
	Threatened and Endangered Plant Species	Addressed as a Special Environmental Concerns	
	T&E Plant Species: Declining Species, Species of Concern		
		DEGRADED PLANT CONDITION - Excessive Plant Pest Pressure	
		DEGRADED PLANT CONDITION - Inadequate Structure and Composition	

Fish and Wildlife	Inadequate Cover/Shelter	Habitat Degradation	Inadequate Habitat For Fish And Wildlife
	Inadequate Food		
	Inadequate Space		
	Inadequate Water		
	Habitat Fragmentation	Habitat Degradation	
	Imbalance Among and Within Populations		
	Threatened and Endangered Fish and Wildlife Species	Addressed as a Special Environmental Concerns	
	T&E Species: Declining Species, Species of Concern		

Animals	Inadequate Stock Water	Inadequate Livestock Water	Livestock Productio n Limitation
	Inadequate Quantities and Quality of Feed and Forage	Inadequate Feed and Forage	
	Inadequate Shelter	Inadequate Livestock Shelter	
	Stress and Mortality	LIVESTOCK PRODUCTION LIMITATION - (Insufficient Feed and Forage, Stock Water and Shelter)	

Air Quality	Excessive Ozone	Emissions of Ozone Precursors	Air Quality Impacts
	Reduced Visibility	Emissions of Particulate Matter (PM) and PM Precursors	
	Chemical Drift		
	Particulate matter less than 10 micrometers in diameter (PM 10)	Emissions of Particulate Matter (PM) and PM Precursors	
	Particulate matter less than 2.5 micrometers in diameter (PM 2.5)		
	Objectionable Odors	Objectionable Odors	
	Ammonia (NH3)		
	Excessive Greenhouse Gas - CH4 (methane)	Emission of Greenhouse Gases (GHGs)	
	Excessive Greenhouse Gas - CO2 (carbon dioxide)		
	Excessive Greenhouse Gas - N2O (nitrous oxide)		
	Undesirable Air Movement	DEGRADED PLANT CONDITION - Undesirable Plant Productivity and Health	
	Adverse Air Temperature	DEGRADED PLANT CONDITION - Undesirable Plant Productivity and Health and LIVESTOCK PRODUCTION LIMITATION - Shelter	

Energy	INEFFICIENT ENERGY USE - Equipment and Facilities	Inefficient use of energy in the Farm Operation increases dependence on non-renewable energy sources that can be addressed through improved energy efficiency and the use of on-farm renewable energy sources	Ineffecient Energy Use
	INEFFICIENT ENERGY USE - Farming/Ranching Practices and Field Operations	Inefficient use of energy in field operations increases dependence on non-renewable energy sources that can be addressed through improved efficiency and the use of on-farm renewable energy sources.	

Color Key

	Green = No significant Change
	Yellow = Modified
	Red = Replaced with existing Resource Concern
	Blue = New